

● PRINTER RUSH ●
(PTO ASSISTANCE)

Application : 10757860 Examiner : Lau GAU : 2863

From: J. Blacke Location: IDC FMF FDC Date: 9/20/05

Tracking #: epm 10757860 Week Date: 4125/05

DOC CODE	DOC DATE	MISCELLANEOUS
<input type="checkbox"/> 1449		<input type="checkbox"/> Continuing Data
<input type="checkbox"/> IDS		<input type="checkbox"/> Foreign Priority
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<input type="checkbox"/> IIFW		<input type="checkbox"/> Fees
<input type="checkbox"/> SRFW		<input type="checkbox"/> Other
<input type="checkbox"/> DRW		
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[RUSH] MESSAGE:

Printed name of second inventor is missing from oath/declaration.

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INITIALS: epm

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REV 10/04

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FAX COVER SHEET

To: U.S. Patent Office – Publishing Division
Fax No.: 703-746-6830

From: John W. Wustenberg
Subject: Notice to file corrected application papers.

Number of Pages (Including Cover): 5
Date Sent: December 16, 2005
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Practitioner's Docket No. 2003-IP-011909U1**PATENT****IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of: Jason D. Bivens, et al.
Application No.: 10/ 757,860 Group No. 2863
Filed: 1/15/2004 Examiner:
For: SYSTEM AND METHOD FOR MEASURING MATERIAL ADDED TO A VESSEL
UNDER A VACUUM

Patent No.: _____ Issued:

*NOTE: Insert name(s) of all Inventor(s) and also title for patent.

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

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I hereby certify that the following papers are being facsimile transmitted to the Patent and Trademark Office (fax No.: (703) 746 - 6830) on the date shown below:

Notice to File Corrected Application Papers
Declaration for Utility or Design Patent Application

Chasidy Smith
(type or print name of person signing certification)

12-16-05

Date

Chasidy Smith

Signature

(Certification of Facsimile Transmission [8-7])

**UNITED STATES PATENT AND TRADEMARK OFFICE**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Serial Number
10757860

Date Mailed
10/04/05

NOTICE TO FILE CORRECTED APPLICATION PAPERS***Notice of Allowance Mailed***

This application has been accorded an Allowance Date and is being prepared for issuance. The application, however, is incomplete for the reasons below.

Applicant is given 30 days from the mail date of this Notice within which to correct the informalities indicated below. A failure to reply will result in the application being ABANDONED. This period for reply is NOT extendable under 37 CFR 1.136 (a) or (b).

- Second inventors name is not printed on oath/declaration.

APPLICANT MUST SUPPLY MISSING INFORMATION WITHIN 30 DAYS OF THE MAIL DATE OF THIS NOTICE.

A copy of this notice MUST be returned with the reply. Please address response to Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450



Lori Burch
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PTO/SB/01 (08-03)

Approved for use through 07/31/2006. OMB 0651-0032

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**DECLARATION FOR UTILITY OR
DESIGN
PATENT APPLICATION
(37 CFR 1.63)**

Declaration Submitted With Initial Filing

OR

Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)

Attorney Docket Number HES 2003-IP-011909U1

First Named Inventor Jason D. Bivens

COMPLETE IF KNOWN

Application Number

Filing Date

Art Unit

Examiner Name

I hereby declare that:

Each inventor's residence, mailing address, and citizenship are as stated below next to their name.

I believe the inventor(s) named below to be the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

System and Method For Measuring Material Added To A Vessel Under A Vacuum

(Title of the Invention)

the specification of which

 is attached hereto

OR

 was filed on (MM/DD/YYYY) [redacted] as United States Application Number or PCT International

Application Number [redacted] and was amended on (MM/DD/YYYY) [redacted] (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached? Yes	Certified Copy Attached? No
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

 Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

[Page 1 of 2]

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 21 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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DECLARATION — Utility or Design Patent Application

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

NAME OF SOLE OR FIRST INVENTOR:



A petition has been filed for this unsigned inventor

Given Name

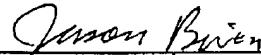
(first and middle [if any])

Jason D.

Family Name

or Surname

Bivens

Inventor's
Signature

Date

1-15-04

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73533

U.S.

NAME OF SECOND INVENTOR:



A petition has been filed for this unsigned inventor

Given Name

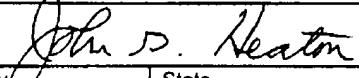
(first and middle [if any])

John G.

Family Name

or Surname

Heaton

Inventor's
Signature

Date

1-15-04

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U.S.

Additional inventors or a legal representative are being named on the supplemental sheet(s) PTO/SB/02A or 02LR attached hereto.

FPG between root cause C_i and alarm A_j , when "length" of arc (V_i, V_j) is defined by

$$\text{Length } (V_i, V_j) = -\ln p(V_i, V_j).$$

Denote by $d(C_i, A_j)$ (the distance from root cause C_i to alarm A_j) the length of this shortest path between C_i and A_j .

5 For given root cause C_i and input set of alarms $X = \{A_1, A_2, \dots, A_s\}$, the Forward Traverse finds value:

$$D(C_i, Y_i) = \sum_{A_j \in X} d(C_i, A_j)$$

of the sum of the distances from root cause C_i to all $y = y_i$ input alarms lying in the prototype, and

10 the average distance

$$\bar{d}(C_i, Y_i) = D(C_i, Y_i) / y_i$$

from root cause C_i to incoming alarms lying in the prototype.

In the case of compound cause C composed of two simple root cause C_{i1} and C_{i2} , distance $d(C, A_j)$ from root cause C to alarm A_j is defined (during the Forward

15 Traverse) by

$$d(C, A_j) = \min(d(C_{i1}, A_j), d(C_{i2}, A_j)),$$

and then the value

$$D(C, Y) = \sum_{A_j \in Y} d(C, A_j),$$

where $Y = Y_{i1} \cup Y_{i2}$, is computed based on distances $d(C, A_j)$.

20 Denote by $q(A)$ the value of "preference" of alarm A (see Alarm Table in 3.1.).

$$Q(Y_i) = \sum_{A_j \in Y_i} q(A_j)$$

the value of cumulative preference of incoming alarms lying in prototype Y_i of root cause C_i ,

$$Q(S_i) = \sum_{A_j \in S_i} q(A_j)$$

25 the cumulative preference of all (expected) alarms lying in prototype of root cause C_i , and